General Inspection Report

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State of Illinois

Dept. & Div. ILL EPA - MPCP Inspector Gary L. [illegible] (Signature) Date Inspected 6/5/86

Mine Name FIDELITY #11 Mine Company FREEMAN UNITED Coal Mining Co

IEPA Permit No. IL0000302 M & M Permit No. _____ County PERRY

General Location 5 MILES WEST OF DuQUOIN

Arrival Time 11 30 AM Weather Conditions HOT PARTLY CLOUDY

RECLAMATION TYPE (Check Appropriate Type)
Mine Includes Prime Land ___Yes/___No
Steep Slope Rule Applies ___Yes/___No
Coal Preparation ___Yes/___No
Not Applicable ___

Reason for Visit: ROUTINE

Persons Contacted:
GLEN HAMILTON - Recl. Sup.

PARAMETER CHECKLIST

1. Availability of: A___permits B___Plans

2. Imminent Danger to Public Health and Safety___

3. Significant Imminent Environmental Harm___

☐ TEMPORARY REPORT
☒ FINAL REPORT

4. Signs and Markers: A. mine entrance B. perimeter C. blasting D. topsoil E. perimeter observance 1. 100' zone 2. 300' zone F. permit area correlation G. not investigated H. not applicable

5. Disposal Spoil and Waste Material Outside Pit or Direct Cast Site: (A) gob disposal 1. site capacity 2. covering 3. vegetation B. within permit area C. site approved D. slope of site E. steep slope rules F. valley fill or head of hollow fills: 1. permit area 2. location near ridge top 3. fill design 4. fill construction 5. steep slope rules 6. under drains 7. lateral drains 8. controlled placement 9. engineer inspection G. not investigated H. not applicable

6. Soil Handling: A. removal before other disturbance B. storage C. protection D. thickness E. root medium F. other overburden G. toxic material handling H. root medium satisfactory for top soil replacement (slope, thickness, texture) I. topsoil replaced J. grading current K. rills and gullies L. erosion control systems M. timely revegetation and mulching (N) not investigated O. not applicable

7. Prime Land: A. prime land determination B. soil horizon removal prior to other disturbance C. thickness removed D. approved horizon storage E. protection of stockpiles F. horizon replacement and thickness G. protection of replaced horizons H. grade (I) not investigated J. not applicable

8. General Water Quality and Hydrology: (A) waterways 1. unaffected area drainage diverted (2) affected area drainage ditches and berms 3. system maintenance B. grading C. vegetation D. toxic material E. horizontal boreholes (F) sediment ponds: 1. size 2. structure (3) spillway 4. clean out 5. over 20' high or over 20 acre feet storage (___yes/___no) 6. seepage 7. structural weakness (8) discharge structure 9. chemical treatment system 9. (a). permitted ___yes/___no G. discharge water quality H. buffer zone (100') observance I. zone markers (J) NPDES permits required ✓yes/___no K. water quality L. not investigated M. not applicable

IL 532-1199
MPC 014 2/84

(7/79/81)

Mine Name FIDELITY #11

9. Stream Channel or Other Water Diversion: (A) temporary or permanent B. size adequacy C. stability D. gradient E. grade stability F. suspended solids G. sediment control H. channel design I. erosion control structures J. fish and wildlife protection K. vegetation L. removal of temporary structures M. structure removal procedures N. not investigated O. not applicable

10. Road Hydrology: (A) culverts (B) ditches C. location choice D. grade E. stream closeness F. ditch relief drains G. outslope drains H. construction material __ toxic/ __ non-toxic I. maintenance J. railroad spur hydrology K. vegetation L. not investigated M. not applicable

11. Impoundment Structures: A. M.H.S.A. construction observance B. coal waste in structure C. freeboard D. stability E. seepage F. engineer inspection G. dam marker H. maintenance I. ditch and spillways J. changes in geometry of structure (K) not investigated L. not applicable

12. Steep Slope Procedure: A. spoil on outslope B. debris C. highwall removal D. disturbance above highwall E. excess spoil F. instability of spoil and woody material G. not investigated (H) not applicable

13. Preparation Facility (includes crushing and screening): (A) water circuit 1. open system 2. closed system 3. no water circuit (B) slurry impoundment 1. berm stability a.) seepage b.) vegetative cover c.) freeboard 2. acid producing potential C. not investigated D. not applicable

14. Domestic Wastewater Treatment Facilities: A. type of system 1. activated sludge package plant 2. lagoon - sandfilters 3. septic tank w/sand filters 4. other B. sand filter maintenance 1. weeds 2. raking 3. sand replacement C. chlorination D. certified operator (E) not investigated F. not applicable

LEGEND: O = parameter inspected: Ø = comment or question on the parameter

NOTE: Items circled were considered during this investigation. If nothing under a major item was investigated, circle either "not investigated" or "not applicable". Violation means violation or apparent violation.

___ NO VIOLATIONS FOUND ✓ SEE ATTACHMENT

Indicated Parameter	Check Column		Comments or Action Taken
No.	Violation	Non-Violation	
GEN Comm		✓	
5A		✓	
8A		✓	
8C		✓	
8F3		✓	
8J		✓	

Fidelity #11
Freeman United Coal Mining Co.
June 5, 1986

ATTACHMENT

General Comments: During this investigation, I was accompanied by Joyce Munie, MPCP Engineer from Springfield. Ms. Munie and I viewed the site so that Ms. Munie could become familiar with the site and specifically its drainageways.

5A: Ms. Munie and I observed the gob pile which is located in a final cut pit. When the pit is full of gob material, it will be covered with at least four feet of non-toxic soil material, graded, and seeded. The pit is approximately 1/3 full at this time therefore its longevity will last a couple more years before a new gob disposal area is utilized.

8A2: Along the south and southeastern section of the site, surface runoff water is collected in a series of drainage ditches which direct the water to a sedimentation pond with NPDES discharge number 006.

8R: Ms. Munie and I observed the pond at the southern end of the site which has had the discharge designations changed from 005 to 006 because of the change in the locations of the discharges and the mining plan. A large ditch was constructed on the northwest section of the pond which will receive effluent water from the pond. Stabilization of the ditch is not complete at this time however Glen Hamilton, Reclamation Supervisor, explained how the ditch would be stabilized which is expected to be completed this month.

8F3: It was not clearly discernible whether a spillway or other discharge structure actually now exists at discharge 006. The lack of a discharge structure does make it difficult to obtain a representative sample of water, however a representative sample of the effluent water can be obtained further on down the receiving ditch without much co-mingling of unaffected area surface runoff water.

Both NPDES discharge locations (002 and 006) had discharges during this visit. Discharge 006 was flowing at approximately 75 gallons per minute and discharge 002 was flowing at approximately 125 gallons per minute. At both discharges the water appeared clear, therefore no samples were obtained.

To the northeast side of the sedimentation pond designated as pond 006, a bucket wheel excavator and some bulldozers were operating. The machinery was causing a lot of dust and dirt to be airborne which was settling onto the pond creating a sort of scum on the water surface. I explained to Mr. Hamilton that the scum could not be discharged and that it would probably be a good idea to construct some rip-rap dams in the drainage ditch so as to help prevent the discharge of the scum. Mr. Hamilton concurred with the suggestion and stated that the rip-rap dams would be constructed.

8J: This site is permitted under NPDES permit IL0000302. Note: All DMR's have been submitted in accordance with permit conditions.

Gary L. Minton

Gary L. Minton
Environmental Protection Specialist

GLM:mk/0029M/6-11-86

cc:MPCP/FOS/Marion
IDMM